	ROUTIN	G AND	RECOR	D SHEET
SUBJECT: (Optional) Engineering Medel of Ko Submission for Evaluate			Use with	the
FROM: Chief, Engineering Sta:	NO. ENG-M 60-			
2815 Alcott Hall				DATE
TO: (Officer designation, room number, and building)	DATE		OFFICER'S INITIALS	COMMENTS (Number each comment to show from whom to whom. Draw a line across column after each comment.)
1.	RECEIVED	FORWARDED		To whom. Star a line across colonial area each comment.)
Chief, OC-TTT 2402 "I" Building				News Prince
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Office Memorandum • United States Government

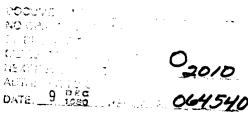
ENG M

	441-0 P1	
TO :	Chief, Telecommunications, Training & DATE: Techniques Staff. OC	50)//
ATIN : FROM :	Chief, Engineering Staff, OC	50X1
subject:	Engineering Model of Key Proposed for Use with the Submission for Evaluatory Comment	50X1
	1. A major objection that has been voiced to the version of the Electronic Keyer is that the keyboard keys are "dead" with respect to "feel", travel, or action. The time required for devel-	50X1
	opment of the electronic functions of the did not permit an exhaustive study of this problem within the requirement deadline. However, since initiation of the off-line keyer program, considerable thought has been given to the problem. An engineering model of a	50X1
	key has now been worked up which should eliminate many of the	50X1

2. The key submitted is intended to demonstrate the mechanical action or "feel" only -- thus the single button. A twelve-button keyboard -- 10 digits, space and error -- including the "typing cores" and circuit interconnections can be constructed in dimensions which approximate 35/8" x 2" x 1/4". The twelve-button keyboard will be constructed for the first prototype of the off-line keyer. However, a full keyboard (29 keys) would have the approximate dimensions 81/8" x 31/16" x 1/4" which would also include the "typing cores" and interconnections.

to your office for evaluatory comment.

- 3. The keyer submitted has only three moving parts -- the combined button and rocker arm, the copper-beryllium "snap strip" and the key contactor which involves only a very slight flexture of the diaphragm. This model has been subjected to 10,000 depressions without malfunction. The mechanical tolerances on this model have not been held as close as they probably will be in the production prototype; therefore, the unit has been sealed to maintain the relative positions of the parts. Reassembly of this model may prove tedious thus it is suggested that it not be taken apart -- at least until after any evaluation of the unit is complete.
- 4. An engineering model of the full keyboard will be constructed for use in functionally checking the storage unit for "all character" operation. However, as previously stated, the abbreviated keyboard will be constructed for the prototype unit. Circuitwise the breadboard



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	of the is nearing completion. Problems still exist in threading matrices because of shorts caused by insulation punctures by sharp edges and metallic burrs. A means of circumventing this difficulty is now being sought. Upon solution of this problem, testing of a limited capacity breadboard storage unit can begin. 5. Your comments on the key submitted are invited at the	50X
	earliest convenient date.	50X ²

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